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Avtomobil'naya i traktornaya promyshlennost', No 7, 1950.

## PROJECTS OF THE SCIENTIFIC RESEARCH AUTOMOBILE AND MOTOR INSTITUTE

The following list is No 5 in a series of reports by the Ministry of Automobile and Tractor Industry USSR on scientific research and experimental projects carried out in its institutes and plants:

## Scientific Research Automobile and Motor Institute

Testing pneumatic springs.

Testing brakes with floating shoes.

Rubber-suspended elastic elements.

A carburetor having a variable diffusor which serves simultaneously as a choke.

Eliminating vibration in the fuel-feed system of the YaAZ-204 diesel.

Sleeve materials for automobile engines.

Testing gas apparatus manufactured by the Moscow Carburetor Plant for use in automobiles operating on compressed gas.

Conversion of the GAZ-51 to liquified gas.

Air brakes on Soviet trucks and trailers.

Various designs of vortical combustion chambers for transport-type diesel engines.

The effect of changing the vortical chamber volume on the compression ratio of four-cycle diesel engines.

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Testing filter elements in the YaAZ-204 diesel fuel injectors (a stand setup, without motor).

Piston rings with expanders (stages IV-VI of project).

The composition of oil having anticorrosive, detergent and lubricating qualities (synthesis of complex admixtures).

The selection of materials and admixtures for increasing the toughness of oil films (chemical section).

The TM-14 shop instrument for checking quality of machine-part surface finish.

Testing the Moskvich passenger car (stage III).

Experimental research on the engagement process in automobile clutches.

Testing the electrical equipment on the YaAZ-200 truck.

A method of measuring spark energy in ignition systems.

Suggestions for the standardizat: n of air-brake equipment on Soviet trucks, truck tractors, and trailers.

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